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[3026 Translated by David Clayberg]

# Planar Antenna Array

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 BH 1246105*

## 5 Technical Field

The invention relates to a planar antenna array in a radar sensor for detecting objects in the vicinity of a motor vehicle, with a multitude of microstrip feeder lines and a multitude of coupling slots for emitting microwave energy into open space.

## Prior Art

The patent application EP 0685 930 A1 has already disclosed a radar sensor with a mount that is attached to a vehicle in order, for example, to determine the distance and relative speed of a vehicle driving forward. The radar sensor described therein contains an oscillator, a mixer, an amplifier, an antenna array for sending and receiving microwave radiation, and a receiver with evaluation electronics. An advantageous housing for a radar sensor of this kind has been disclosed, for example, by the patent application DE 199 04 303 A1.

## Depiction of the Invention

The object of the invention is to disclose an antenna array of the type mentioned at the beginning, which can be produced using LTCC technology (Low Temperature Cofired Ceramics) and achieves a favorable antenna efficiency in a planar design. This object is attained by means of the features disclosed in claim 1. Advantageous embodiments and modifications of the invention are characterized in the dependent claims.